

Programming Assignment 1: It's Elemental

Assignment Description

You've decided that Chemistry is an awesome field to explore. Since we recently celebrated the 150th anniversary of Mendeleev's periodic table of the elements, you decide to go look at the (current) periodic table of the elements. You're so excited by the beauty and elegance of that arrangement that you decide to print out the symbols for the first 10 elements in the periodic table of the elements.

PERIODIC TABLE OF ELEMENTS

PubChem																		2																	
1																				He															
H																																			
Atomic Number																				Symbol															
Name																				Chemical Group Block															
Hydrogen																				Nonmetal															
Nonmetal																																			
3		4																5		6		7		8		9		10							
Li		Be																B		C		N		O		F		Ne							
Lithium		Beryllium																Boron		Carbon		Nitrogen		Oxygen		Fluorine		Neon							
11		12																13		14		15		16		17		18							
Na		Mg																Al		Si		P		S		Cl		Ar							
Sodium		Magnesium																Aluminum		Silicon		Phosphorus		Sulfur		Chlorine		Argon							
19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36	
K		Ca		Sc		Ti		V		Cr		Mn		Fe		Co		Ni		Cu		Zn		Ga		Ge		As		Se		Br		Kr	
Potassium		Calcium		Scandium		Titanium		Vanadium		Chromium		Manganese		Iron		Cobalt		Nickel		Copper		Zinc		Gallium		Germanium		Arsenic		Selenium		Bromine		Krypton	
37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54	
Rb		Sr		Y		Zr		Nb		Mo		Tc		Ru		Rh		Pd		Ag		Cd		In		Sn		Sb		Te		I		Xe	
Rubidium		Strontium		Yttrium		Zirconium		Niobium		Molybdenum		Technetium		Ruthenium		Rhodium		Palladium		Silver		Cadmium		Indium		Tin		Antimony		Tellurium		Iodine		Xenon	
55		56		57		72		73		74		76		77		78		79		80		81		82		83		84		85		86		87	
Cs		Ba		La		Hf		Ta		W		Re		Os		Ir		Pt		Au		Hg		Tl		Pb		Bi		Po		At		Rn	
Cesium		Barium		Lanthanum		Hafnium		Tantalum		Tungsten		Rhenium		Osmium		Iridium		Platinum		Gold		Mercury		Thallium		Lead		Bismuth		Polonium		Astatine		Radon	
87		88		89		104		105		106		107		108		109		110		111		112		113		114		115		116		117		118	
Fr		Ra		Ac		Rf		Db		Sg		Bh		Hs		Mt		Ds		Rg		Cn		Nh		Fl		Mc		Lv		Ts		Og	
Francium		Radium		Actinium		Rutherfordium		Dubnium		Seaborgium		Bohrium		Hassium		Meitnerium		Darmstadtium		Roentgenium		Copernicium		Nihonium		Flerovium		Moscovium		Livermorium		Tennessine		Oganesson	
57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74	
La		Ce		Pr		Nd		Pm		Sm		Eu		Gd		Tb		Dy		Ho		Er		Tm		Yb		Lu		Hf		Ta		W	
Lanthanum		Cerium		Praseodymium		Neodymium		Promethium		Samarium		Europium		Gadolinium		Terbium		Dysprosium		Holmium		Erbium		Thulium		Ytterbium		Lutetium		Hafnium		Tantalum		Tungsten	
89		90		91		92		93		94		95		96		97		98		99		100		101		102		103		104		105		106	
Ac		Th		Pa		U		Np		Pu		Am		Cm		Bk		Cf		Es		Fm		Md		No		Lr		Rf		Db		Sg	
Actinium		Thorium		Protactinium		Uranium		Neptunium		Plutonium		Americium		Curium		Berkelium		Californium		Einsteinium		Fermium		Mendelevium		Nobelium		Lawrencium		Rutherfordium		Dubnium		Seaborgium	

Requirements

Your solution must do the following:

1. Print the symbol for each of the first 10 elements of the periodic table, with each symbol appearing on its own line in the output. Refer to the image of the periodic table above.
2. Do NOT print anything else in your output; if you do, you'll confuse the automated grader and you'll get a bad grade!

In case you're having a hard time understanding what your output should look like, here are the first 3 lines of required output (you'll have 10 lines of output):

```
H
He
Li
```

Running Your Code

Because of the code I included to work with the automated grader on Coursera, when you run your program the command prompt window will open and it will sit there doing nothing. To make your code run, type 1 and press the <Enter> key; your code should then run so you can check your output.

You can actually run your code again if you want to by typing 1 and pressing the <Enter> key again. When you're ready to stop running your code, type q (for quit).

Submit Your Work

1. Make a final test of your code and copy the output from the terminal window.
2. If you need to make any additional changes to your code, make sure you commit them.
3. By committing and pushing your updates to GitHub you have submitted your assignment on GitHub Classroom.
4. Return to CodeHS. Paste your output into the code window to complete the assignment.